Title (en)

ACCURATE END OF PAUSE-A DETECTION FOR NEAR FIELD COMMUNICATIONS

Title (de)

GENAUE DETEKTION DES ENDES EINER PAUSE-A FÜR NAHFELDKOMMUNIKATIONEN

Title (fr)

DÉTECTION PRÉCISE DE FIN DE PAUSE-A POUR COMMUNICATIONS EN CHAMP PROCHE

Publication

EP 3736994 A1 20201111 (EN)

Application

EP 19305592 A 20190509

Priority

EP 19305592 A 20190509

Abstract (en)

A contactless communication device includes a near field communication (NFC) module for generating an electromagnetic carrier signal and modulating the carrier signal according to data to be transmitted, and an antenna coupled to and driven by said NFC module with the modulated carrier signal. The device includes an RF front end coupled between said NFC module and said antenna and further includes a detection module coupled to said NFC module for detecting an end of a PauseA of an incoming RF signal by monitoring an amplitude of a digital output signal derived from the incoming RF signal. The detection module detects the PauseA in said digital output signal by comparing the amplitude of said output digital signal to a first level. The detection module further detects the end of the PauseA in said digital output signal by comparing the amplitude of said digital output signal to a second level.

IPC 8 full level

H04B 5/00 (2006.01); **H04B 5/02** (2006.01)

CPC (source: CN EP US)

H04B 5/48 (2024.01 - EP); **H04B 5/72** (2024.01 - EP US); **H04W 4/80** (2018.02 - CN); **H04W 76/30** (2018.02 - CN)

Citation (search report)

- [I] US 2010315160 A1 20101216 - SBUELL RICHARD [AT], et al
- [A] US 2015207616 A1 20150723 - CHOKE TIENG YING [SG], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3736994 A1 20201111; **EP 3736994 B1 20230503**; CN 111918254 A 20201110; US 11025302 B2 20210601; US 2020358479 A1 20201112

DOCDB simple family (application)

EP 19305592 A 20190509; CN 202010329570 A 20200422; US 202016849062 A 20200415